IS206 Database Concepts and Applications
Assignment #6 – SQL Exercises

Due Date: 25 July, Midnight.

Instructions:

Download and load the Lab8 Exercise and Assignment script. This will create a database schema called IS206_Lab8.

If the database is not highlighted as the active schema (ie it is not labelled as IS206_Lab8 in bold), open a script window in MySQL Workbench and issue the following command

```
> use IS206_Lab8;
```

For each answer, please provide:
1. Text (not screen shot) of the SQL script you issued.
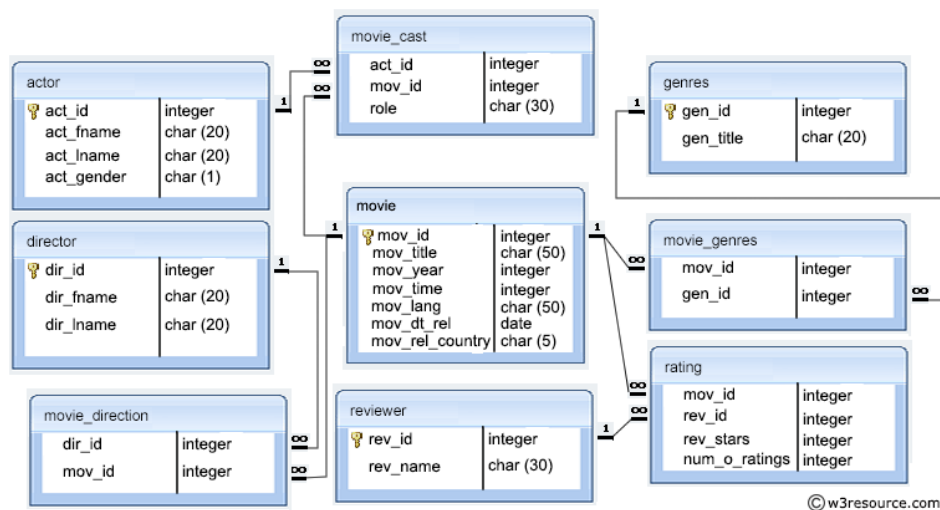2. Screenshot of the results.

E.g.:

Qx. Write a query in SQL to find the year when the movie American Beauty released.
Ax.   SELECT * FROM movie
        WHERE mov_title = "American Beauty";

mov_id	mov_title	mov_year	mov_time	mov_lang	mov_dt_rel	mov_rel_country
914	American Beauty	1999	122	English	NULL	UK

Questions

(5pt)   Q1. Select a list of all reviewers and the reviews they issued.

(5pt)   Q2a. For all movies, create a list of movie names and the ratings it received.

(5pt)   Q2b. Using a SELECT … WHERE, for all movies, create a list of movie names, the ratings it received, and who wrote the review.

(5pt)   Q2c. Using a SELECT … JOIN, for all movies, create a list of movie names, the ratings it received, and who write the review.

(5pt)   Q3. For all directors, show a list of names and a count of how many movies they have directed. Order by the descending number of movies

(5pt)   Q4a. Using a SELECT … WHERE, for all movies released in the 1990s (i.e.: 1990-1999), list the movie title, release year, first and last name of the actors associated with the movie.

(5pt)   Q4b. Using a SELECT … JOIN, for all movies released in the 1990s, list the movie title, release year, first and last name of the actors associated with the movie.

(5pt)   Q5a. Using a SELECT … WHERE, for all movies released in the 1990s, list the movie title, release year, first and last name of the actors associated with the movie, and the role they played.

(5pt)   Q5b. Using a SELECT … JOIN, for all movies released in the 1990s, list the movie title, release year, first and last name of the actors associated with the movie, and the role they played.

(10pt)   Q6a. Using a SELECT … WHERE, for all movies released in the 1990s, list the movie title, release year, first and last name of the actors associated with the movie, the role they played, and who directed the movie. Order by release year (ascending), and the title of the movie.

(10pt)   Q6b. Using a SELECT … JOIN, for all movies released in the 1990s, list the movie title, release year, first and last name of the actors associated with the movie, the role they played, and who directed the movie. Order by release year (ascending), and the title of the movie.

(5pt)   Q7. Using a SELECT … JOIN, for all movies, show their title and genre.

(15pt)   Q8. Using a SELECT … WHERE, for each genre show the average rating. Arrange the results in descending order by average rating, and ascending order by genre.

(15pt)   Q9. Using a SELECT … JOIN, show all actors who are also directors, the role the played in the movie, and the title of the movie.